

Listing Of The Claims:

1. (Currently Amended) A method of changing a driving sequence to output a charge couple device signal, applied to a scanner having a pixel processor and a charge couple device, wherein a plurality of charge signals detected by the charge couple device are sequentially sent to the pixel processor according to the driving sequence, and the pixel processor outputs the charge signals according to a sampling sequence, the method comprising:

providing a fast driving sequence with a period $1/N$ less than the above driving sequence;
sending the charge signals to the pixel processor according to the fast driving sequence; and
sampling the charge signals by the pixel processor according to the sampling sequence, and
outputting data obtained by sampling.

2. (Original) The method according to claim 1, wherein an initial position of the fast driving sequence is shifted with a phase, and the pixel processor samples and outputs the charge signals at different positions.

3. (New) A method of changing a driving sequence to send a plurality of charge signals sequentially to a pixel processor according to the driving sequence, while the pixel processor outputs the charge signals according to a sampling sequence, the method comprising:

decreasing a period of the driving sequence;
sending the charge signals to the pixel processor according to the driving sequence; and
sampling the charge signals by the pixel processor according to an unchanged sampling sequence.

4. (New) The method of claim 3, further comprising:

shifting an initial position of the driving sequence in phase.

5. (New) The method of claim 4, further comprising:

sampling the charge signals at different positions in the driving sequence; and

outputting the charge signals at different positions in the driving sequence.

6. (New) The method of claim 4, further comprising:

determining a sensor cell that is in an initial position to output a charge signal.

7. (New) The method of claim 3, wherein the period of the driving sequence is decreased to half of an initial value.

8. (New) An apparatus to change a driving sequence to send a plurality of charge signals sequentially to a pixel processor according to the driving sequence, while the pixel processor outputs the charge signals according to a sampling sequence, the apparatus comprising:

means for decreasing a period of the driving sequence;

means for sending the charge signals to the pixel processor according to the driving sequence;

and

means for sampling the charge signals by the pixel processor according to an unchanged sampling sequence.

9. (New) The apparatus of claim 8, further comprising:

means for shifting an initial position of the driving sequence in phase.

10. (New) The method of claim 9, further comprising:

means for sampling the charge signals at different positions in the driving sequence; and

means for outputting the charge signals at different positions in the driving sequence.

11. (New) The method of claim 9, further comprising:

means for determining a sensor cell that is in an initial position to output a charge signal.

12. (New) The method of claim 8, wherein the period of the driving sequence is decreased to half of an initial value.